



PROGRAMME

www.icps-conference.eu

TOPICS	CHARGES		
Gasification technologies	Regular:	€ 450,	

Students:

€ 350,--

- Gas cleaning
- Synthesis of biofuels and bulk chemicals
- Combination with other biomass conversion options
- Biorefinery concepts

SCIENTIFIC COMMITTEE

Hermann Hofbauer, Vienna University of Technology
Martin Kaltschmitt, German Biomass Research Centre / Hamburg University of Technology
Johan Einar Hustad, Norwegian University of Science and Technology
Pier Ugo Foscolo, University of L'Aquila
Samuel Stucki, Paul Scherrer Institut.
Ausilio Bauen, Imperial College London
André Faaij, Utrecht University
Miroslav Miller, Wroclaw University of Technology
David Serrano, IMDEA Energia Institute
Mehri Sanati, Lund University

AIM OF THE CONFERENCE

Biomass gasification is a key technology for a high efficient biomass utilisation in the future. All different types of energy currently used within our energy system can be provided by the conversion of solid biomass into syngas: heat, electricity and biofuels. Therefore such polygeneration systems have become more and more important within energy policy and industry in recent years. This is the reason why this topic has been discussed on several conferences. But slowly it is realised that for economic and environmental reasons as well as due to limited biomass resources such polygeneration systems could be much more promising if they are part of integrated biorefineries. Such biorefineries are characterised by a wide range of different biomass feedstock as well as a broad variety of different products to be used as a raw material as well as an energy carrier.

Against this background the main aim of the conference is it to present the current state-of-the-art of syngas production from different biomass feedstock and in various capacities, the syngas cleaning and syngas utilisation for the provision of e.g. biofuels and bulk chemicals. Additionally ideas and concepts of such integrated biorefinieries are presented, discussed and assessed. Furthermore a platform for the exchange of information, results and experiences is offered. Therefore researchers as well as industrial representatives are invited to participate within this conference.

ADDRESS

Zeitgeschichtliches Forum Leipzig

Grimmaische Str. 6 D-04109 Leipzig www.hdg.de/leipzig



CONFERENCE VENUE



SOCIAL EVENT



Tuesday

 $7^{th}\ September\ 2010$

Reception at the

Old Mercantile Exchange ("Alte Handelsbörse Leipzig")

Naschmarkt 2

D-04109 Leipzig

TUESDAY, 7th September 2010

10:15 Integral	ication and assessment of ION "FEEDSTOCK & o-chemcial pretreatment eneration lignocellulosic b ding biomass via hydrothe	H. Hofbauer nt status and perspectives R. van Ree biorefinery concepts in IEA Bioenergy Ta G. Jungmeier et al. FEEDSTOCK PRETREATMENT" options - Possibilities and constraints M. Klemm, R. Schmersahl, A. Ortwein ioethanol: Is torrefaction a possible appr D. Chiaramonti ermal carbonisation in the CarboREN-proc T. Wittmann	Joanneum Research (Austria) German Biomass Research Centre (Germany) roach to biomass pretreatment University of Florence (Italy)		
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15:00 Experi	ation of residues and was	te wood in a dual fluidized bed steam gas			
15:00 Experi		V. Wilk H. Kitzler, H. Hofbauer	Bioenergy2020+ (Austria) Vienna University of Technology (Austria)		
15:00 Experi	s controlling gasification i		vienna university of fectinology (Austria)		
	s controlling gasification i	T. Suzuki et al.	Kansai University (Japan)		
	Experimental investigation of affecting parameters on the gasification of biomass fuels in a 20 kW fluidized bed				
15:30 Cataly	illentai liivestigation oi ai	N. Poboss, A. Schuster, G. Scheffknecht	Stuttgart University (Germany)		
J.Jo Cutury.	sts for fluidized hed hioma	ass gasification - Overview on recent deve			
	oto for francisca bea bronne	C. Pfeifer, S. Koppatz, H. Hofbauer	Vienna University of Technology (Austria)		
5:20 Coffee	break & Poster presentati				
	ION "GAS CLEANING				
16:45 Chemi	cal hot gas cleaning of syn	ngas from biomass gasification for produc	ction of biofuels		
		M.Stemmler, M. Müller	Forschungszentrum Jülich (Germany)		
17:15 Prepar	ation of catalyst for carbo	onyl sulfide hydrolysis at the moderate te			
	•	Ju Shangguan et al. Taiyuan	University of Technology (China)		
7:45 Reliab	Reliable sampling of impurities in product gas and syngas				
	-	J. Zeisler	Bioenergy2020+ (Austria)		
		M. Kleinhappl, H. Hofbauer	Vienna University of Technology (Austria)		
8:30 Guideo	l tour through the exhibit	ion of the Zeitgeschichtliches Forum			

WEDNESDAY, 8th September 2010

08:30 Methanation - Basics, technologies and integration into thermo-chemical biorefineries					
		A. Ortwein et al.	German Biomass Research Centre (Germany)		
9:00	Hydroprocessing of Fischer Tropsch biowaxes to 2nd generation biofuels				
		H. Schablitzky	OMV Refining and Marketing (Austria)		
		R. Rauch, H. Hofbauer	Vienna University of Technology (Austria)		
09:30	Pathways for synthesis of liquid b	oio fuels - Review on conversion efficien	cy, selectivity and by-products		
		H. Wagner	Hamburg University of Technology (Germany)		
		M. Kaltschmitt	German Biomass Research Centre, Hamburg University of Technology (Germany)		
0:00	Coffee break & Poster presentation	on			
	SESSION "OVERALL CONC	CEPTS I"			
0:45	Biorefineries based on thermo-chemical processing				
		M. Sanati	Lund University (Sweden)		
11:15	Biomass gasification for power go	eneration: Essent's own developments			
		M. Spanjers, W. Willeboer	Essent Energy Production (Netherlands)		
1:45	Biomass to green gasoline and power				
		F. Joensen	Haldor Topsoe (Denmark)		
2:15	Lunch break				
	SESSION "OVERALL CONC	CEPTS II"			
4:00	Efficient biomass utilisation by p	olygeneration processes - Production of	hydrogen, electricity and heat		
		T. Mayer et al.	Bioenergy 2020+ (Austria)		
4:25	Converting biomass-rich residual	streams into biofuels , co-product comr	nodities and traditional bioenergy vectors (heat and power)		
		E. Chornet, R. P. Overend, M. Chornet	Enerkem / CRB Innovations (Canada)		
4:50	Research activities in polygeneration in Germany within the BMU-funding programme - Status and prospects		g programme - Status and prospects		
		D. Pfeiffer, D. Thraen	German Biomass Research Centre (Germany)		
5:15	Future potential of flexible integ	rated gasification poly-generation facil	ities		
		J.C. Meerman et al.	Utrecht University (Netherlands)		
5:40	Future ways of biorefineries	T. Targiel	Wuppertal Institute for Climate, Environment and Energy (Germany)		
		D. Maga	Fraunhofer-Institute for Environmental, Safety and Energy Technology		
		U. R. Fritsche et al.	Institute for Applied Ecology (Germany)		
16:05	Final consideration & outlook	H. Hofbauer	Vienna University of Technology (Austria)		
		M. Kaltschmitt	German Biomass Research Centre, Hamburg University of Technology (Germany)		

EXCURSION (TWO ALTERNATIVE TOURS ARE OFFERED)

TOUR 1

8:00 - 15:00

Excursion to the BIOETHANOL PLANT, ZEITZ and the BIOMETHANE PLANT KÖNNERN

Timetable

08:00 - 13:00 Excursion 13:00 - 14:00 Lunch

15:00 Arrival in Leipzig

TOUR 2

8:00 - 15:00

Excursion to the

WASTE FERMENTATION PLANT, WEISSENFELS,
THE LARGE BIOGAS POWER PLANT TO
GENERATE ELECTRICITY, MÖHRSDORF and the
GERMAN BIOMASS RESEARCH CENTRE (DBFZ), LEIPZIG

Timetable

9:00 - 12:00 Excursion 12:00 - 13:30 Lunch 13:30 - 15:00 Excursion

EXCURSION

Thursday, 9th September 2010

IMPRESSIONS



Bioethanol plant in Zeitz



Biomethane plant in Könnern



Waste fermentation plant in Weißenfels



German Biomass Research Centre in Leipzig

CHARGES

INFORMATION

Deutsches BiomasseForschungsZentrum (DBFZ)

German Biomass Research Centre ICPS `10 Organisation Committee Torgauer Straße 116 D-04347 Leipzig Tel. +49-341-2434-112 www.icps-conference.eu

Find more Information at www.icps-conference.eu

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